PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

то GLAXOSMITHKLINE CIP (CN925.1) Attn. Florence, Julia Anne 980 Great West Road

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

Brentford, Middlesex TW8 9GS UNITED KINGDOM (PCT Rule 44.1) GlaxoSmithKline Date of mailing (day/month/year) Corporate IP 14/04/2005 Applicant's or agent's file referenceived BRENTFORD FOR FURTHER ACTION See paragraphs 1 and 4 below JAF/PB60540 1 4 APR 2005 International application No. International filing date (dav/month/vear) PCT/EP2004/011 BELY PLUM ADMINIT 20/10/2004 IPM : N/A ON UPDATED DN: U Applicant ATTY CHECKED/FILE GLAXO GROUP LIMITED

1.	 The applicant is hereby notified that the international search report and the written opinion of the International Searchir Authority have been established and are transmitted herewith. 									
	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.									
		Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35								
	For more detailed instructions, see the notes on the accompanying sheet.									
2.		The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.								
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:								
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest: the applicant will be notified as soon as a decision is made.								
4.	Rem	inders								
		tly after the expiration of 18 months from the priority date, the international application will be published by the national Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international								

application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Sandrine Parriche

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative instructions under that Treaty, in case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant want leater to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the International application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendmente, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed:
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- Where originally there were 14 claims and the amendments consist in carcelling some claims and in adding new claims;
 "Claims 1 to 6 and 14 unchanged, claims 7 to 13 cancelled; new claims 15, 16 and 17 added," and 17 added, all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, prefer ably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international posliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Pluei 62.2(a), first sentency.

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220						
JAF/PB60540	ACTION as well as, where applicable, item 5 below								
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)						
PCT/EP2004/011952	20/10/2004		22/10/2003						
Applicant	Applicant								
GLAXO GROUP LIMITED									
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.									
This International Search Report consists	of a total of6 sheets	S.							
X It is also accompanied by	a copy of each prior art document cited	in this i	report.						
Basis of the report With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.									
The international this Authority (Ru		a transla	ation of the international application furnished to						
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.									
2. Certain claims were found unsearchable (See Box II).									
3. Unity of invention is lacking (see Box III).									
4. With regard to the title,									
X the text is approved as submitted by the applicant.									
the text has been established by this Authority to read as follows:									
5. With regard to the abstract,									
X the text is approved as su	bmitted by the applicant.								
			y as it appears in Box No. IV. The applicant the report, submit comments to this Authority.						
6. With regard to the drawings,									
	ublished with the abstract is Figure No.		<u></u>						
as suggested by the applicant.									
	s Authority, because the applicant faile		-						
	s Authority, because this figure better on e published with the abstract.	maracter	nzes the invention.						
b. Indie of the figures is to be published with the abstract.									

Form PCT/ISA/210 (first sheet) (January 2004)

International Application No PCT/FP2004/011952

A. CLASSIFICATION OF SUBJECT MATTER
TPC 7 C07C311/08 C07C235/42 C07C217/54 C07D213/65 A61P11/08
A61K31/166 A61K31/18 A61K31/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Category °

Р,Х

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07C C07D

6 November 2003 (2003-11-06)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Citation of document, with indication, where appropriate, of the relevant passages

WO 03/091204 A1 (GLAXO GROUP LIMITED, UK)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

	the whole document				
А	EP 0 239 815 A1 (THOMAE, DR. G.M.B.H., FED. REP. GER.) 7 October 1987 (1987-10-07) Examples 114 and 116	KARL,	1-16		
х	EP 0 198 412 A1 (HOFFMANN-LA UND CO. AG., SWITZ.) 22 October 1986 (1986-10-22) column 8, lines 22-26, exampl		1,2,5-9, 16		
		-/			
X Fu	rther documents are listed in the continuation of box C.	X Patent family members are listed	in annex.		
° Special o	categories of cited documents :				
"A" docun	nent defining the general state of the art which is not idered to be of particular relevance	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention	the application but		
"E" earlier	r document but published on or after the international date	"X" document of particular relevance; the o	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to		
"L" docum	nent which may throw doubts on priority claim(s) or h is cited to establish the publication date of another on or other special reason (as specified)	involve an inventive step when the do "Y" document of particular relevance; the o	cument is taken alone slaimed invention		
"O" docur other	ment referring to an oral disclosure, use, exhibition or r means	document is combined with one or mo ments, such combination being obvio	cannot be considered to involve an inventive step when the document is combined with one or more other such docu- ments, such combination being obvious to a person skilled		
"P" docum	nent published prior to the international filing date but	in the art.			

"&" document member of the same patent family

Bueno Torres, M

14/04/2005

Authorized officer

Date of mailing of the international search report

Name and mailing address of the ISA

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6 April 2005

"P" document published prior to the international filing date but later than the priority date claimed

European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016

Date of the actual completion of the international search

Relevant to claim No.

1 - 16

International Application No
PCT/EP2004/011952

Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.							
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
Ρ,Χ	ALIKHANI, VAHID ET AL: "Long-chain formoterol analogues: an investigation into the effect of increasing amino-substituent chain length on the .beta.2-adrenoceptor activity" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS , 14(18), 4705-4710 CODEN: BMCLE8; ISSN: 0960-894X, 2004, XP002323505 Compounds 12d, 12f	1-16					
A	US 4 992 474 A (SKIDMORE ET AL) 12 February 1991 (1991–02–12) cited in the application the whole document	1-16					

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International application No. PCT/EP2004/011952

Box II Ot	oservations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Interna	tional Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	aims Nos. : cause they relate to subject matter not required to be searched by this Authority, namely:
bo	lthough claim 11 is directed to a method of treatment of the human/animal ody, the search has been carried out and based on the alleged effects of the ompound/composition.
be-	nims Nos.: cause they relate to parts of the International Application that do not comply with the prescribed requirements to such extent that no meaningful International Search can be carried out, specifically:
bed	aims Nos.; cause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Ot	oservations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Interna	tional Searching Authority found multiple inventions in this international application, as follows:
	all required additional search fees were timely paid by the applicant, this International Search Report covers all archable claims.
2. As of a	all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.
3. As	only some of the required additional search fees were timely paid by the applicant, this International Search Report vers only those claims for which fees were paid, specifically claims Nos.:
4. No res	required additional search fees were timely paid by the applicant. Consequently, this International Search Report is tricted to the Invention first mentioned in the claims; it is covered by claims Nos.:
Remark on	Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Information on patent family members

International Application No
PCT/EP2004/011952

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Information on patent family members

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